

8 Signs That It's Time to Look for a New Job:
Don't be the last to realize you ought to move on. PAGE 30

<u>COMPUTERWORLD</u>



If the Internet goes down, will you be ready?

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Source Sharman Cyrining University Contract Cont



INFRASTRUCTURE LOG

_DMY 82: There are so many risks out there. So many things that can happen to our business: natural disasters, spikes in traffic, mergers. How do we prepare? One in three companies don't recover from unplanned downtime! Would we?

_Gil has wrapped everything in the affice with bubble wrap. Everything. Just to be safe.

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us maximum uptine. The future freels so much sofer now.

_No mare bubble wrap. And I have to mail a package. Great.



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Don Tennant

Gut Check

HEN WE REPORTED online last week
that former CA CEO Sanjay Kumar had
made the final payment on the \$52 million
in restitution he owed after pleading guilty
to accounting fraud charges, some readers took the opportunity to express their disdain for Kumar and for what he had

done that landed him in prison.

"They should leave him in there, where he belongs, but transfer him to a real prison," wrote one reader, referring to the fact that Kumar's lawyers are seeking to reduce his sentence at a minimum security facility in New Jersey. "This would be justice for the reign of terror he employed while at CA."

For the life of me, I can't figure out how the history of what really happened at CA has become so distorted. Reign of terror? You bet there was a reign of terror at that company. But it was hardly progated by Kumar. Another reader who commented on the same story accurately identified the true culprit as CA founder Charles Wang. Yet this reader was caually missinformed.

"Sanjay fell into [the] wrong company." the reader wrote. Kumar "actually was good for Computer Associates, smoothing over bad relations with customers, eliminating many of the problems [inherited] from his fatherin-law. Shame of it is that his father-in-law (Slick Charlie) didn't join him behind bars." This isn't the first time

I have heard from a reader who thought that Kumar is Wang's son-in-law, or have seen a reference to that effect elsewhere. I don't know how that myth originated, but it's not true. Kumar's wife, Sylvia, is not related to Wang.

I couldn't agree more that it's a shame Wang isn't behind bars. But I wonder why this reader, who identified himself as a former CA employee through an acquisition, bought into a myth that is so easily debunked.

Most of the former CA employees who have written to me agree that

■ You bet there was a reign of terror at CA.
But it was hardly propagated by Sanjay Kumar.

Kumar was thrown under

"Charles and his brother Anthony found a sucker, put him in the right place, and left him hanging in the breeze," wrote one.

"Charles and his inner circle were evil," claimed another. "Sanjay was truly the fall guy."

To the extent that Kumar made mistakes and he did — justice was served when he walked into that prison compound last August. But as I wrote in a column in April 2006 after Kumar pleaded guilty to the charges, decent people do stupid things.

"It would be tragic if the miracle Kumar worked at CA — transforming it from the most intensely feared and loathed software company on the planet to a respected and valued business partner — is forgotten because of all this." I wrote. "Vilification, in Kumar's case, is unwarranted.

That column elicited a heartfelt response from an employee who worked for



Kumar for years at CA.
"I don't know what happened, maybe it was just getting caught up in the technology boom at the time." she wrote. "But all in all, he is the most decent human being I have fever had! the honor and privilege of knowing and working for. He doesn't deserve this at all."

The same employee e-mailed me last August, eight days after Kumar entered prison. She was responding to the "Dear Charles" column I had written, in which I used a baseball doping metaphor in addressing Wang, I said that he's the one who shot the illegal performance-

enhancing drugs into CA. She noted that she and a co-worker had had breakfast with Kumar two

breakfast with Kumar two weeks earlier to say goodbye. "He is such an amazing man. Very positive, stoic," she wrote. "I can't believe you had

"I can't believe you had the guts to write the truth about [Charles Wang] and CA," she added. "It needed to be told and come out."

It took no guts at all.
What takes guts is owning up to your mistakes
and paying for them.
Food for thought for those
in power when terror
reigned.

Don Tennant is editorial director of Computerworld and InfoWorld. Contact him at don_tennant@computerworld.com, and visit his blog at http://blogs.computerworld.com/tennant.

RESPONSE TO: E-discovery Rules Still Causing Headaches

Ian. 7, 2008

This article perpetuates a couple of myths about the "new" federal rules and what IT professionals should do to deal with discovery in litigation.

First, it is information content, not media type or "format," that controls. Discovery has always been about finding retained information. not data. Hence the creation of the category of electronically stored information to supplement "documents" and "physical things" as discoverable evidence. Further, the rules do not mandate that information be produced in native file format. They require any format conversion be to a "reasonably usable form" to prevent abuses that began in the mid-'90s. Abuses like spending millions to print e-mail, move it off-site, scan the paper to TIFF and then OCR the TIFF to get machine readable text, when that's what you had to start with. Thus, the rules are very far-reaching and designed to accommodate new technology. Moreover, professional records

managers have known for decades that it is content that it is ontent that to controls retention. Put another way, it is the subject matter of the information in the e-mail that determines its rotention value, not the fact it was created or stored in an e-mail system. In my experience, IT fails to talk to records managers, the perceived "paper pushers," who have content and retention categories for everything important. The rules don't change this paradigm, except to create the one" warrentmears" content class.

If your records manager or businessperson printed an e-mail and was required to hold the printed version for seven years, the same rule applies to the e-mail in digital storage. Forget about 90-day purgerules, or you will live a perilous life. Last, tape backup for disaster recovery is not archiving. If you aren's tart as soon as possible. Leave the tapes to DR and bring them out only in the event everything etse fails.

- the "litigation hold" class.

Submitted by: William Kellermann

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EMC to Replace Some Disks With Solid-State Drives This quarter EMC will ship a line of solidstate drives with flash memory as an option to replace some disk drives in the company's high-and Symmetrix storage arrays.



First Look: On Cloud 9
With Apple's MacBook Air
Conputerworfs Ryan Faas calls the new
subnotibook "truly immostlive" but asps cur rent Mac users will have to change the way they work to get the most out the allm-line laptop. FireWhar and Ethernet ports are no longer included, for instance. How the Spectrum Auction Could Change Your Life This week's auction of large chanks of wire less spectrum could lead to healther comp tition and more devices, some analysts say

Could Postballot Audits Renew Faith In Elections?

Supporters of e-voting reform say the time is now to mandate random counts after elections.

Opinion: At the Airpo

Opinion: At the Airport, An ID Theft Takes Flight Like to people-watch at the airport? Jon Expensived does - and he spotted a we dressed woman Dumpster-driving. She in have been looking for your personal data

Digest of the Linear Conference of the Conferenc

THE WEEK AHEAD

MONDAY: General sessions begin at Lotusphere 2008, RM's conference for Lotus users, in Orlando,

TUESDAY: Apple plans to report its first-quarter financial results. Other vendors due to release earnings reports this wee include Sun Microsystems and Sybase, both on Thursday.

> IRDAY: The group Computer Professionals for Social onsibility holds a one-day conference on technology a wartime, at Stanford Law School in Palo Alto, Calif.

SOFTWARE

BEA, Oracle Users Fear Price Hikes, Product Line Cuts

RACLE CORP'S agreement to buy BEA Systems Inc. for \$8.5 billion prompted users of both firms' products to express fears of price increases and product consolidation.

The BEA board agreed to the deal last week, three months after it had spurned Oracle's earlier \$6.7 billion bid for the middleware yendor.

Bure Oral, a senior architect at government contractor CellExchange Inc. in Cambridge, Mass, said that on the positive side, the deal will make it possible for users to buy databases and application servers from a single vendor. On the other hand, Oral anticipates that it will cause some confusion for BEA users because of technology overlap.

technology overlap.

Oral said that he expects
that the deal will likely
mean the death of some
products — "a little from

Oracle and a lot from BEA."
He added that Oracle
would be well served to
retain BEA's WebLogic application server. "[BEA] had
[WebLogic] many years be-

fore Oracle was out there," Oral said. "BEA has always been very friendly to the user community with downloads and documentation. Oracle doesn't have this wide acceptance from the user community."

Jim Burgard, assistant vice chancellor of university computing and communication at the University of New Orleans, said that he has "some concerns about future licensing and mainte-



Iniversity of New Orleans as "some concerns" that leal will lead to higher pri or Oracle and BEA produ

nance costs, now that all the components are owned by one vendor."

Mike Gilpin, an analyst at Forrester Research Inc., said that Burgard's fears art not unfounded, and he suggested that support costs for BEA products could grow after the deal closes. And if BEA users move to Oracle's technology, he added, they will have to pay for migration.

Gilpin also noted that "it's not in Oracle's interest to aggravate these customers. In many cases, they are already Oracle customers."

Todd Langille, project manager of administrative computing at Dartmouth College in Hanover, N.H., said he wonders whether Oracle has a "clear, coherent strategy" for its growing software portfolio.

Patricia Dues, enterprise program manager for the city of Las Vegas, said she hopes that Oracle can use BEA's technology to upgrade its own offerings, such as Oracle Business Intelligence Enterprise Edition, which the city recently purchased.

"We realize what Oracle
has done with other acquisitions in taking the best of
both worlds. This sparks

our interest," said Dues. The deal is expected to 'close in October.

 Brian Fonseca and Heather Havenstein



Jailed former CA Inc. CEO Sanjay Kumar (above) has made the final S2 million restitution payment he owed for his involvement in a S2.2 billion accounting scandal at the vendor, his attorney said last week. Kumar was under a court order to repay S52 million to victims of the Iraud. He is jailed at the Federal

Correctional Institution in Fairton, N.J., and is scheduled to be released in 2018, according to the Bureau of Prisons, Kumar has appealed the sentence, said his lawyer. Lawrence McMichael. "He's holding up just

fine and doing the best he can while taking courses and doing a few jobs," Mo Michael said. Kumar reported to priso in August, after pleading

an August, after pleading guilty to fraud and obstruction of justice charges. His guilty plea cut the restitution order from \$1.02 billion to \$52 million.

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SECURITY

MySpace, States Sign Kids Online Safety Pact

YSPACE INC. and 49 state attorneys general last week culminated two years of discussions by agreeing to a new set of principles aimed at stepping up online safety on MySpace and other social networking sites.

cial networking sites.
As part of the agreement,
MySpace will add some
60 new features intended
to protect children from
online predators, the attorneys general and MySpace
officials said during a press
conference in New York.

The pact also calls for MySpace to create a panel called the Internet Safety Technical Task Force, with representatives from other social networking sites, security vendors and online safety advocacy groups. The task force will evaluate and develop new age-

ate and develop new ageand identity-verification tools and issue findings and recommendations by the end of this year, the attorneys general said. Roy Cooper, North

Carolina's attorney general and co-chairman of the attorneys general's task force on online safety, said that the agreement "should set the standard for social networking sites across the globe that have been quick to grow hut slow to recognize their responsibility for keeping kids safe."

Cooper's task force includes MySpace and officials from 49 states and the District of Columbia.

Hemanshu Nigam, chief security officer at MySpace and Fox Interactive Media Inc., hoth owned by New York-hased News Corp., unged other social networking sites to join the partnership with the attorneys general.

Connecticut Attorney General Richard Blumenthal, co-chairman of the task force, noted that despite the accord, there remains an ongoing disagreement about whether it's possible for MySpace to really authenticate the age of its users.

"There was a difference in perspective hetween the attorneys general and MySpace on the feasibility of new technology that would authenticate age and identity." he said. "We are not papering over or concealing our continued differences."

Fears that the MySpace plan will not work to protect users from predators prompted Texas Attorney General Greg Abhot to decide not to join the effort.

Short Takes

nounced plans to lay off about 4,000 employees and close about 125 retail outlets as a result of a net loss of more than 100,000 customers in the fourth quarter. The company said the moves will cut costs by \$700 million to \$800 million annually.

hired former 4. 39
If Executive Tony
Scott as CIO. Scott replaces Stuart Scott, who
left Microsoft in Novembor. The two are not related. Tony Scott reports
to COO Kevin Turner.

has agreed to acquire a privately held application virtualization software company. VMware said Thinstall's technology will help it expand its desktop virtualization capabilities.

unveiled the third release of its Cognos 8 Bi tools, which are designed to provide more targeted performance management information to a broader set of users. A day earlier, the BI vendor's shareholders had approved its S5 billion acquisition by [150].

OPEN SOURCE

IBM's Jazz Edges Closer to Open Source

IBM LAST WEEK opened its Jazz.net community to anyone who wants to provide feedback on the technology, which is intended to improve collaboration

Carry Schwaber, an analysi at Forrester Research Inc. in Cambridge Mass, cold the move marks the first time IBM has committed to release any part of Jazz as open source.

Opening Jazz.net "is a natural step - especially if they want to

pet a community built arous this," she said. "That is who makes or breaks an opensource project." The Jazz.net community OPEN

- which was launched in June - could previously be accessed only by customers and academics invited by IBM. The site will now provide all comers with access to Juzz code, bug lists and other details. Jazz source code and agree that it's not a classic opensource project like Eclipse -

"[Jazz_net] is an open comnercial community designed o build and evolve the Jazz schnology," said Scott Hebner schnology," said Scott Hebner schnology," said scott open marketing and strategy,

But he added that IBM does lan to eventually open the lazz source code as it did with colpse. "The ultimate goal is very similar to Eclipse," he sald. — HEATMER HAVENSTEIM

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DESKTOP APPLICATIONS

Open XML Changes Get Put Down on Paper – Lots of It



THE STANDARDS body pusbing Microsoft Corp/s Office Open XML document format for approval as an ISO standard published a 2,300page document last week addressing complaints and suggestions made by ISO members.

Under ISO rules, Ecma International's full document can be viewed via a Web portal only by members of national standards bodies. But Geneva-based Ecma openly posted a summary of the key changes made to the Open XML standards proposal, which failed to win enough votes in initial balloting last September.

The changes include the sidellining of a graphicsrendering technology used by few vendors other than
Microsoft, and the addition of more information on how
Open XML, the native file
format in Office 2007, supports file compatibility with
older versions of Office.

older versions of Omce.

The length of Ecma's response isn't surprising, since ISO members submitted 3,522 written comments about Open XML in the wake of the September vote. A second vote is scheduled for late next month.

The rival Open Document round for Office Applications, or ODF, bas already been ratified as a standard by ISO. But Burton Group, a consulting firm in Midvale, Utah, issued a report last week predicting that ODF will have only "a minor role in IT installations compared

with Open XML.
Marino Marsich, executive director of the OpenDocument Format Alliance,
retorted that many users
have adopted "a buyerbeware attitude" toward
Open XML because it would
"tie them to the upgrade
path of a single vendor."

- Eric Lai



and

jointly announced their first product bundles as part of SAP's planned acquisition of the business intelligence vendor. Gregory Reyes, former CEO

sentenced to 21 months in

prison and fined \$15 million for his role in a stockoptions backdating scheme.

The TJX Companies Inc. disclosed a massive security breach that it has since said involved the theft of 45.6 million credit and debit card numbers from its systems.

Global Dispatches

EC Launches New Probes of Microsoft BRUSSELS - The European Commission last work conned

Commission last week opener two new antitrust investigations into Microsoft Corp.'s activities.

The first case, based on a complaint from the Brussels-based European Committee for Interoperable Systems, concerns the interoperability of Windows with other software.

The second investigation.

based on a complaint by Opera Software ASA in Oslo, is looking into Microsoft's tactiof bundling software with its Windows operating system.

Windows operating system.

Both new probes build on the findings of the EC's 2004 welfered refers assists.

unsuccessfully challenged. In statement, Microsoft said it " in full compliance with European law and our obligations" under the antitrust ruling. Paul Moller. IDG News Service

Nokia Cuts 2,300

German Jobs
ESPOO, FINLAND - Mobile
phone maker Nokia Corp.,
based here, has announced
plans to lay off 2,300 employees at a plant in Bochum, Bermany, and move production to

lower-cost European sites. The company said the Bochum plant will close by mid-2006.

"Production of mobile devices in Germany is no longer feasible for Nokia," Vell Sundback, executive vice president of Nokia, said in a statement. for global cost efficiency at for flexible capacity growth Nokia said it will negotia with employee representat to "reach a satisfactory so

with employee representatives to "reach a satisfactory solution" for everyone involved. Grant Gress. IDG News Service

BRIEFLY NOTED

Microsoft last week said that it has provided computer training to 200,000 teachers in India, beating its goal of training 60,000 indian teachers during the five-year period ending in December 2008. The company launched the program, called Project Shiksha, in 2003.

John Ribeira, IDG News Service



Ostriches have brains smaller than their eyes.





THE 'HACKER SAFE' SEAL: Shield Target?

Critics claim that Web site vulnerability scans can give companies a false sense of security. But users say that the scans are a valuable part of their online defense strategies. By Jaikumar Vijayan

■ SECURITY

ORE THAN 80,000 Web sites worldwide display a small green to be "Hacker Safe." The logo is provided to them by ScanAlert Ine., a vento that scans the sites of its clients daily in search of security vulnerabilities.

security vulnerabilities. ScanAlert's logo is the most widely used security seal of its kind on the Web, and it can be found on dozens of marquee-brand sites, including those of Johnson & Johnson, Sony and Warner Bros. Such widespread use attracted the attention of security vendor McAfee Inc., which in late October agreed to acquire ScanAlert.

But Napa, Calif-based ScanAlert was put on the defensive this month after online technology retailer Geeks.com warned an undisclosed number of customers that their personal and credit card data may have been compromised in a hacking incident. Geekscom, whose formal name is Genica Corp. displays the Hacker Safe logo at the bottom of its home page.

bottom of its home page.
A ScanAlert spokesman said "preliminary
evidence" suggests that
the breach likely occurred
during one of several periods last year when ScanAlert had withdrawn its
certification from Geekscom after finding vulner-

abilities on the Web site. Even so, the incident at Geeks.com has rekindled a debate about the value of security seals such as the Hacker Safe logo.

ScanAlert users say that the scanning service can sniff out at least some security problems and that the logo is a valuable mar-

keting tool for them.

On the other hand,
ScanAlert's detractors say
the service can give companies and their online
customers a false sense of
security. Indeed, hacker
groups have claimed that
they have targeted and
broken into numerous
Web sites displaying the
Hacker Sel loso.

"Hacker Safe seals are completely ludicrous," said David Kennedy, who heads SecureState LLC's profiling and e-discovery practice. SecureState is a consulting firm in Cleveland that offers security risk assessment services and does manual penetration testing of systems and networks for its clients.

networks for its chents.
ScanAlert's automated probes offer a "very basic form of vulnerability identification," Kennedy claimed. They focus more on spotting network vulnerabilities than on detecting harder-to-find Web application flaws, such as SQL injection and crosssite scripting vulnerabilities, he said.

ties, he said.
"Web applications
are very dynamic and
ever-changing," whereas
vulnerability scans rely
on static information to
identify security issues,
Kennedy said. He noted
that after being asked to
do security assessments by
10 companies with Hacker
Safe logos on their Web
sites, SecureState was able
to break into nine of the
sites and easily access fi-

nancial and customer data.
Adriel Desautels, chief
technology officer at
Netragard LLC, a Mendham, N.J.-based company
that offers manual vulnerability testing services,
said automated scans can

Continued on page 14



What does it take to provide 360° communications in a 24/7 business world?

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IT SERVICES AND SOFTWARE ENTERPRISE NETWORKING AND COMPUTING SEMICONDUCTORS IMAGING AND DISPLAYS

stroments in 2006 for the second year in a row according to Gartner "Market Share Enterprise Telephony Equipment Worldwide 2006 Megan Fernandez & Isabel *Nontern July 2007 ONEC Corporation 2007 NEC and the NEC logo are registered trademarks of NEC Corporation Empowered by Innovation as trademark of NEC Corporation.

Empowered by Innovation



■ SECURITY

Continued from page 12 be useful in ensuring that a Web site is protected against known security flaws. "They make sure that network security is not a complete disaster," he said

But automated scans don't work as well with customized Web applications and e-commerce environments, Desautels contended.

In addition, they do next to nothing to test Web sites against less commonly known vulnerabilities, he said, adding that those are the flaws most likely to be exploited by black-hat hackers

"We had a major financial institution customer that had passed an automated vulnerability scan and intrusion testing," Desautels said. "Everything appeared to be working, but then we came in and by the end of the third day, [we] had penetrated 17 of their internal systems."

Tim Dowling, vice president of consumer growth initiatives at McAfee's Web security group, said it's unreasonable and naive to expect any IT security service to provide 100% protection against online threats.

"Hacker Safe is not perfect." Dowling acknowledged. But he said that ScanAlert's service does help users defend their Web sites against "thousands and thousands" of threats. And sites that sport the seal are far more readily trusted by consumers than those that don't, he claimed - a contention that was backed up

by several ScanAlert users. According to Dowling, a full 90% of the scans that ScanAlert performs on a daily basis are automated. But in cases where sites fail the vulnerability scans the vendor may do manual

VIEWPOINTS

penetration testing to help its clients understand and correct security problems, he said.

And contrary to the claims of Kennedy and Desantels. ScanAlert does look for problems such as SQL iniection and cross-site scripting flaws, Dowling added.

He noted that the datestamped Hacker Safe seal is served and controlled entirely by Scan Alert and is withdrawn any time a Web site fails to pass the daily vulnerability scan. Since new vulnerabilities arise frequently, Dowling said. it isn't uncommon for sites to lose and regain their Hacker Safe status, as Geeks.com did last June and December.

The Hacker Safe service should be just one part of a multilayered security strategy, said Jay Greenberg. director of e-commerce at Spencer Gifts LLC, a novelty gifts retailer in Egg Harbor Township, N.J.

This is one additional tool that you can utilize to help secure your site," Greenberg said, adding that IT and Web site managers also "have to be smart and diligent about making sure your developers are monitoring and checking" for

security flaws as well. In addition to beloine secure Web sites at the back

We had a maior financial institution customer that had passed an automated vulnerability scan. But then we came in and by the end of the third day, [we] had pen-

end. ScanAlert's service can boost sales by making consumers "feel comfortable" about doing business on a site, Greenberg said.

etrated 17 of their

internal systems.

Before joining Spencer Gifts, he worked for another company that was a Scan-Alert client, Greenberg said that to test how useful the Hacker Safe logo was from a marketing standpoint, the company - which he declined to identify - asked Scan Alert to make the seal visible to only about half of the visitors to its Web site. The test showed that more of the people who could see the logo bought products, he said.

NO GUARANTEE

lay Cline, president of Minnesota Privacy Consultants and former chief privacy officer at hospitality industry conglomerate Carlson Companies Inc., has been a ScanAlert customer for about a year. Using the Hacker Safe service certainly doesn't guarantee that hackers will never be able to break into a Web site, said Cline, who also is a Computerworld columnist.

"What I'm buying is a service that keeps me safe from hackers that use known vulnerabilities," Cline said. "I'm aware that there's still [other risks] that I need to

watch out for."

ScanAlert has helped identify security problems that might otherwise have been missed. Cline said. For example, during the initial sign-up process, a scan pointed him toward a crosssite scripting vulnerability that resulted from the way his site was being hosted by an external Web site devel-

oper. A logo proclaiming that a site is safe from hackers could sometimes be seen as an open invitation for malicious attackers to try to crack the site, Cline acknowledged. But like Greenberg, he said that the Hacker Safe seal can be a valuable tool for convincing consumers to complete transactions and not be scared away by any security concerns.

"If you're looking for ROI, Hacker Safe on balance gives you more lift," Cline

Bill Cronin, manager of e-commerce at The Vermont Teddy Bear Co. in Shelburne, Vt., also said that he has been able to justify the cost of the ScanAlert service from a marketing

standpoint. When it comes to actually boosting the security of a Web site, though, the benefits are somewhat less obvious, Cronin said. He added that ScanAlert can help users identify some pretty obvious flaws that most IT . departments really should be finding on their own in

the first place. "If they're coming up with vulnerabilities on your site, you really aren't doing your job as a security administrator." Cronin said. "The technical side of me says there is limited use here from a security perspective. The marketing guy in me says it's a no-brainer."

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Dell is using System Center solutions to manas (3,000 servers and 100 000 PCs worldwide 'that's big: See Dell and other case studies at Designed ForBig com H 10

System Center



Users Say Sun Needs to Fix What's Broken At MySQL

Sun's \$1B buy will give it an open-source database — and some unhappy customers.

By Patrick Thibodeau

N AGREEING last week to pay \$I billion for MySQL AB, Sun Microsystems Inc.

said it hopes to make MySQL's open-source database more attractive to enterprise customers. But Sun has a lot of work to do, according to some MySQL users.

And it isn't just technical fixes that are needed, they said. Although Sun described MySQL as "an open-source icon," it also will have to mend fences with users who are unhappy about the datahase vendor's sales tactics and complain that it has ignored their development suggestions. For instance, within hours of the proposed acquisition's announcement, Don Mac-Askill, CEO of SmugMug Inc., said in a bloop posting that he is "seriously considering" not renewing the online photo-sharing service. MySQL Enterprise support contract. "I probably wouldn't pay for MySQL as it stands today," he wrote.

In an interview, Mac-Askill said MySQL has performance problems when it's paired with InnoDB, the most widely used storage engine for the database. In particular, the problems af-

fect systems with multicore processors. "That's turning out to be a pretty major scalability roadblock for a lot of us," he said.

us, ne sau.
Google Inc. and other
MySQL users have developed patches to fix the prohlems. But MacAskill said
that the open-source vendor
has yet to add the patches
to the database, despite requests that it do so from him
and other users.

Zack Urlocker, MySQL's executive vice president of products, said it has applied two patches dealing with the performance problems — one in Septemher and the other this month. But he added that he didn't know whether those patches addressed Mar-Askill's complaints.

ADDITIONAL CONCERNS There are plenty of other

I nere are premy to total things that also need fixing in MySQL, according to a blog posting by Jeremy Cole, who formerly used the database at Yahoo Inc. and is now a MySQL consultant at Proven Scaline LLC.

"There are a lot of areas where MySQL has been lacking for a long time, and the power users have been either crying in their heer or doing the work themselves," Cole wrote. For instance, he cited problems with the datahase's replication, logging and internal memory-ailocation features.

In addition, Cole criticized MySQL's sales and marketing team and said that the company's development model for MySQL Enterorise is "broken."

Jonathan Schwartz, Sun's CEO and president, said during a teleconference that the biggest impediment to MySQL's growth has been its inability "to give peace of mind to a glohal company that wants to put MySQL.

into mission-critical deployments." Schwartz added that the open-source database will benefit from Sun's hroader enterprise reach.

Sun already distributes the PostgreSQL open-source database on its Solarisbased servers. But Schwartz described the purchase of MySQL as "the most important acquisition" made by the company thus far.

However, the deal could complicate Sun's relationship with Oracle Corp. Sun's largest database partner. MySQL competes directly with Oracle and other datahase vendors. Also, Oracle owns InnoDB, having bought its developer in 2005.

"Now that [MySQL] is going to be supported by a major vendor, there's lots of companies that are going to give it a serious look," said Rohert Lepanto, Oracle applications manager at AppCentric Solutions LLC in Stamford, Conn. "I would think that's a serious long-term threat to Oracle."

Lepanto, who also is president of the New York City Metro Oracle Applications Users Group, added that he's surprised Oracle "didn't huy [MySQL] first to squash the competition."

Daniel Grim, executive director of networks and systems at the University of Delaware in Newark, has an enterprisewide Oracle license but also sees value in

the open-source databases. "We've often found Oracle is more complex and more cumbersome things like PostgereSQL and MySQL are," Grim said. "So we use those for small applications, although some of (thel applications are quite large, such as monitoring networking traffic." ⁸⁰ Brian Fonsecu and Eric Lai contributed to this story.

On the Mark

HOT TRENDS III NEW PRODUCT NEWS III INDUSTRY BUZZ BY MARK HALL



Sharks Hungry for IT Staff

NFORMATION TECHNOLOGY exces may want to protect their staffs as legal sharks begin to hunt for tech talent. For the past 15 years, AXS-One Inc. in Rutherford, NJ, has been selling its information-archiving technology to 1T departments. But, ssys Marie-Charlotte Patterson, vice president of market strategy, something changed last year. "We're just as likely to be talking to a room full of lawvers and giving demonstrations to the eneral counsel." she saws.

And increasingly, she adds, IT staffers are being hired directly by the office of the general counsel. Why are lawyers auddenly becoming IT kingpins? Records management, Patingpins? Records management, Patingpins? Records management as testing to the start of the staffer of t

And so the genera

Patterson:
Lawyers are

counsel's omce wants a direct say in choosing the company's archiving tools and is willing to go so far as to hire expertise to specify and even run the software for them, she says, That's certainly true in Massachusetts, which recommends that the "general counsel, CFO or higher ranking officer" become the records czar at state agencies. CIOs need not apply.

Middleware Takes

Soff-service Path Habpan Ica. Is soft: offers what Robert Neas, its vice president of marketing, call: "Loud-based measuring, call: "Loud-based measuring the connectors between applications and data sources so your supply chain can connect with your operations. For example, until Habpan provides progress and bods into a supplier's inventory to watch their inventory in watch their inventory, levels adjust accordingly, Cool, But even better, you don't have to bandle all the gualty

middleware plumbing. Leave that to Hubspan. Later this year, Pease says, the company will begin to experiment



begin to experiment L. why now when which selective. Today, Hubspan experts need to work with you to map the connections between your agos and those you want to connect with. The plan is to evertually let you do the mapping yourself. Pease argues that the 9,000-plan splication-to-application connections Hubspan has created so far give it more integration experience than your staff has, while making things simple enough for you to do the work yourself. Self-service pricine has not been set.

Plug Wireless Security Holes

Let's face it Every new technology added to your network is another vector for security problems. Mike Lloyd, chief scientist at RedSeal Systems Inc. in Redwood City, Calif., agos virtually all the tools you've given end user all the tools you've given end usersaging." are steppingstones to your network that attacken use to get the step of the step in the step of the step in the step in



loyd: Know what paths tackers can Seal unveiled its Security Risk Management (SRM) 2.1 software with support for wireless networks. Lloyd says that Version 2.1 "shows a map of those (wireless) steppingstones" to your critical data.

Even if you encrypt your wireless communications, he says, those pathways from wireless access points to other network devices are available to a skilled intruder. The next attack vector RedSeal will, um, attack is virtual machine software, specifically vulnerabilities in Whaver Inc.'s

abilities in VMware Inc.'s hypervisor. Look for that later this year. Subscription pricing for SRM 2.1 starts at \$1,000 per month, or you can pay \$25,000 for a perpetual license.

O MORE BUZZ Decover and decuss non-industry action at the On the Mark blog computer world.com/



THE GRILL

Eben Moglen

The founder of the Software Freedom Law Center talks about taking on Microsoft and Disney, managing the software commons and 'copyleft capitalism.'

Dossier

Hame: Eben Moglen

Title: Founder, president ar executive director Organization: Software

Freedom Law Center Location: New York

Book most recently read: History of the Conquest of

Mexico, by W.H. Prescott Favorite film:

Much Ado About Nothing

Favorite food: "I cook lots of different things. In my kitchon, there's Chinese food, there's Indian food, there's Italian food. "

Favorite vacation spot: "My view about vacation is that the great luxury is getting off the Net. I have to have a week or two in which I am unattached."

What he collects: "I collect books - heaps of them. And I seem to be a collector of computer hardware, but that's only because we have such a crappy recycling structure."

Favorite music: European and Northern Indian classics music, and American jazz

What do you see as the bigoest danger to open—sources software body? On the one hand, there's still a locus of resistance. Microsoft still maintains strongly the view that its business model, which depends upon concealing source code from users, is a viable and importance of the control of

But Microsoft, too, has now fundamentally recopitzed that there is not another generation left in the propritor software idea, and they are trying to leverage the remaining value of their monopoly in a world of mixed free au unfree code. As Microsoft begins to move itself away from being the primary partisan of unfreedom, the second

Continued on page 20





The HP ProLiant DL380 G5 Server cames complete with our Systems Insight Management (SIM) software. HP SIM reduces the average time I.T. spends an server administration¹ by 31% and nearly daubles the number of servers that can be managed per administrator—saving time, maney and cauntless headaches.

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One of the things that everybody now understands is that you can treat software as a renewable natural resource like forest products or fish in the sea.

Continued from page 18 most important partisans of unfreedom are the owners of culture — the Disneys and the other major movie studios, who have a great deal of imagemaking authority in the world and a great deal to lose from the obliteration of their distribution mechanisms.

Proprietary software companies may not want to hear about such radical ideas that could put them out of business. How do you make anybody listen? Possibly the difficulty you are having is too quick a diagnosis about what businesses need. The fundamental theory that I believe has to do with the benefits of what I

think of as "copyleft capitalism" [the idea of making a program or other piece of work freely distributable, as opposed to restricting its use via a copyright].

The primary desire that businesses have is for control over their own destinies, for avoidance of autonom bottlenecks which put the fate of their business into the hands of someone else. The difficulty that they experience - that they call vendor lock-in. or noninteroperability - is a difficulty which is really a businessman's equivalent of [Free Software Foundation President Richard! Stallman's frustration at unfreedom. They are essentially the same recognition: In a world of complex, interdependent technology, if I don't control my technology, it will control me. Stallman's understanding of that proposition and Goldman Sachs' understanding [for example) needn't be as far apart as one might think. The desire to maintain autonomy - the desire to avoid con-

trol of destimy by outside parties—is as ferce in both cases as it can get. The near death of IBM in the 1980s gave that organization a clear understanding of how to avoid having its destiny controlled by somebody who made software. And as you look at the ripples of this idea through the economy, you begin to understand why lots

of people are going to take up this call. Each [IT vendor is left in a different place because they are different entities how the constraints in that you can treat softare as a renewable natural resource — like forest products or fish in the sea. Hy you build company the products or fish in the sea. Hy you build company a hilly to ereate, then you can use your limited resource to the you can use your limited resource to the products of the product products of the products of the which is already created deswert which is already created deswert which is already created deswert.

So you're saying that open source is basically changing the attitudes of traditional companies? All of these companies are coming to depend heavily in profitmaking business on nonprofit supply chain [the open-source software they are using]. They are each discovering that there are nonprofit supply-chain cliements which are crucial to profitmaking success. Now, in 20th century economic organizations, if you had

discovered at General Motors that 30% of the value of each of your cars was coming from a nonprofit down the street, you'd have gone and bought the nonprofit. Bud because of GPL and the copyleft, a large portion of that nonprofit supply chain is unpurchaseable. You can't own it. It was designed

to be a commons.

If you've become dependent on a commons for whatever role in your business, then what you need is commons management. You don't stripmine the forest; you don't fish every fish out of the sea. And, in particular, you become interested in conservation and equality. You want the fish to remain in the sea, and you don't want anybody else overfishing. So you get interested in how the fisheries are protected:

I train forest rangers to work in a first free and other people love because it's free and other people love because it produces great trees cheaply. But both sides want the forest to exist pristine and undesecrated by greedy behavior by anybody else. Nobody wants to see the thing burn down for one

group's profit. Everybody needs it.
So whether you are IBM, which has one strategy about the commoditization of software, or Hewlett-Packard, which has another — whatever your particular relationship to that reality is — everybody's beginning to get it. In the 21st century economy, it isn't factories and it isn't people that make things. It's communities.

is Microsoft and its occasional patent threats to Linux something that keeps you awake at night? I have spent more time studying that problem than Microsoft has spent creating that problem. It

has spent creating that problem. It doesn't keep me awake at night, but it keeps me at work during the day. If in the process of irreversible change, Mirosoft launches its missiles — which other dying empires, like the Soviet Union, have managed not to do — we will protect our clients. If they die without launching their missiles, it will be better for everyone.

Do you personally use much proprietary software today? No, none. I have never been a Windows user. I have never used the Macintosh OS.

Ageintosh OS.

— Interview by Todd R. Weiss

HAS ONLY ONE PLANT OUTSIDE JAPAN.

ONTARIO



Google's Android Is An Audacious Move

HILE SOME had expected Google to come out with an iPhone-killing G-Phone, the company's announcement in November of the Android mobile platform is something far more

sweeping, and it has ramifications for IT.

To show that Android is no pipe dream, Google trotted out scores of partners in the initiative, including handset vendors, carriers and software providers. What's most interesting is that the Linux-based platform will be open source (under the Apache license) and free of charge. So why is Google does not seen that the control of the Apache Charge.

So, why is Google doing this? It aspires to get its applications into the mobile sphere, but right now there's just too much platform fragmentation. Even Jaw on one handset is not like Jaw on another. Lacking a single, strong platform to build on, Google wants to create one. That's why it isn't coming out with its own hardware or tying. Android to one carrier.

The cost of Android (there is none!) is going to make it attractive to both handset vendors and carriers. And there are no strings attached other than a very important agreement not to fragment the platform. Google will offer a suite of mobile applications for Android, but it won't require that the apps be used. In theory, you could see Android handsets with Yahoo Mail and Live Search, but no Google services at all.

If Google delivers on its vision, the impact to consumers could be huge. The mass market is finally embracing more

III Is Google's entry into the mobile market a smart move? Yes. It's as if IBM had offered Linux to PC vendors for free at the time Microsoft introduced Windows NT.

functionality in mobile devices, but at the same time, carriers and handset vendors are looking to cut costs. Android might bridge that gap. And Google has the corporate heft to prevent the market from fragmenting, so it could succeed where other Linux implementa-

tions have failed. Is Google making a smart move? To answer that, consider a bit of alternative history. Suppose that Linux had been available at the time that Microsoft came out with Windows NT. Now suppose that IBM decided to offer Linux for free to PC vendors along with a core suite of applications. How different would the PC business be today? Oh, and there are a lot more phones out there than there are PCs.

But, of course, business users are not consumers, and corporate IT

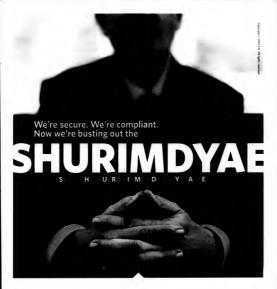


will have a different take on Android. Google will need to articulate why business users should embrace this platform. At the moment, a lot

is missing for business deployment. There was no announcement that Android would support Exchange synchronization, be compatible with Office applications or allow central device management. Google's mobile competitors already have solutions for these things that work well. Enterprise developers will want to keep an eye on Android, but it's not something they'll cmbrace in the short term.

Still, IT cannot ignore last year's big developments in the mobile market. A year ago, neither Google nor Apple was a player, and today they are two of the most relevant and talked-about companies in the mobile world. Things are moving fast, and IT has to pay attention as the combatants fire one salvo after another.

another. #
Michael Gartenberg is vice
president and research
director for the personal ne
technology and access and
custom research groups
at Jupiter Research in
New York. Contact him at
mgartenberg@optonline.
net. His weblog and RSS
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COVER STORY

Apocalypse

that the Internet will soon experience a catastrophic failure, a mult day outage that will cost the U.S. economy billions of dollars.

Or maybe it isn't likely.

In any case, companies are not prepared for such a possibility.

But then again, some are

These mixed messages come from credible sources. The confusion stems in part from the fact that the Internet has never seen anything much worse than local outages and brief slowdowns. But could it? And if it did, how ready would your company be?

Indeed, the threat is "urgent and real," says The Business Roundtuble, an association of CEOs of large U.S. companies. The Washington-based public policy advocacy group says there is a 10% to 20% chance of a "breakdown of the critical information infestructure," in the next 10 wasers.

"breakdown of the critical information infrastructure" in the next 10 years, brought on by "malicious code, coding error, natural disasters, [or] attacks by terrorists and other adversaries."

An Internet melidown would result in reduced productivity and profits, falling stock prices, erosion of consumer spending and potentially a liquidity crisis, according to a recent Business Roundable report, "Growing Business Roundable report, "Growing Business Roundable report, "Growing Business Roundable report, "Growing Business appendence on the Internet - New Risks Require CEO Action." The organization based its conclusions on earlier risk analyses done by the World Economic Forum in Geneva.

Tom Lehner, director of public policy at The Business Roundtable, says business executives often fail to realize how dependent they have become on the public network — for e-mail, collaboration, e-commerce, publicfacing and internal Web sites, and information retrieval by employees. He also notes that disaster recovery. He also notes that disaster recovery and business-continuity plans often fail to take into account the threat an Internal suppliers. Moreove, business executives often mistakenly believe that goverernment will take the lead in revolve the properties of the control of the contraction of the control of the

"What we wanted to do in this report is say to CEOs, 'You may not reize that whole segments of your business are almost completely dependent on the Internet, and it's not enough to have a few IT specialists to help you respond to problems as they come up," "Lehner says.

JUDGING THE RISK

Stephen Crocker, an Internet pioneer and chairman of the Security and Stability Advisory Council of the Internet Corporation for Assigned Names and Numbers (ICANN), says he tries to walk a line between 'Chicken Little, high-gave-relible' scenario and "Pollyanna, the-world-is-wonderful" views of the Internet. He says, for example, that he worries little about a physical attack on the Internet — against major hubs, lines and so on. "I don't know of any physical attack that would have any wide-general or long-time to the proper support of the pretty objects at the physical track that you have any wide-great or long-reliable tracking the pretty objects at the physical reliable to paths available."

But the Internet is not so robust at other layers, admits Crocker, the CEO of Shinkuro Inc., a Bethesda, Md.-based developer of informationsharing technology. He points to the possibility of "systematic failure of operating systems like Windows, or penetration by worms that run rampant and cause massive amounts of chaos," or floodlike denial-of-service attacks. Still, he says, these kinds of disruptions, although annoying and potentially quite costly, are typically resolved in a matter of bourneyd thus stop short of being trophe that the Bu report contemplar

Others agree that the rist of catastrophe is minimal. Asked if he worries about an internet melidowa, Michael Long, senior vice president of global services as Siemens Medical Solutions, says, "Anything is possible, certainly, with things today like the terrorism situation. But we are pretty confident that if we did have an Internet we'd go with alternate countries."

In fact, he says, he visors the longnet as something of a backup for an dedicated lines from ATLATO ic. and Verizon Communications for.

Malvern, Pa-based Sie us Medical Solutions provides applies am hosting for more than 1,000 host hit care customers at 600 sites, so ally through private, dedicated lines.



The financial services industry is split on just how b

THE BANKING and heardful sector is in good shape for [Internet] disruptions, as they have regulatory requirements that force them to be prepared, and they can justify the sepance of prepared ness, says Patrick Cain, châmman of a network security working group of the Internet Engineering Task Force. "Additionally, many interbank function interests do not operate over the vanilla internet, so they are a little more most latter of the prepared to the properties of the properties

But other IT professionals are less sanguine. "The financial industry is worried about the possibility of a widespread or prolonged Internet outage," says Dan Schutzer, executive director of the Financial Services Technology Consortium in New York. "We already to some facility to work despite [an] outage, but we are also continually looking at what more we can do."

Schutzer says the industry got a "rude awakening" on 9/11, when it learned it didn't have the communications diversity and redundancy that it thought it did. As a result, many financial companies have taken these steps to protect them selves against another internet outage in Set up declared networks in Set up declared networks independent of telephone companies in overtain parts of the country. They are survivable communications owned and operated by fundancial service utilities, Schutzer says, declining to give detailly in Regolitated more aggressively with communications companies to guarant the diverse routing.

 Separated data centers and communications centers more widely geomanifesting.

But concerns about relaters on the internet extent beyond direct threats to the Net Itself, Schutzer says. And some of the more mandam possibilities could turn out to be the most troublescens. For example, he says that in a flu pandermic, large numbers of employees may be forced to wark at home via VFMs on the listernet. "What happens to the available forced to wark and with a support to the complexity of the consideration of the locating MPG files?" — BAY ANTIES.

COVER STORY

Long does concede that certain functions would be a "challenge" without the Internet. For example, Siemens uses the Inter-

net extensively for troubleshooting and remote diagnostics by its major IT vendors, IBM, Hewlett-Packard Co. and Cisco Systems Inc. Also, the company receives I million e-mail messages a week via the Internet, he says.

There is a good chance that parts of the Internet will fail from time to time, says Neal Parf, CIO of Yuma County, Ariz. But having been based on the Arpanet and designed to keep functioning when pieces are broken, it seems less likely that the entire Internet would stop working."

The county currently accesses its ERP applications via a virtual private network over the Internet, and it offers many Web services to citizens from its own data center, also via the Internet. But Puff says that because of reliability concerns, he wants to flip that around, offering externally facing services from a distant site and hosting applications for internal use in his own data

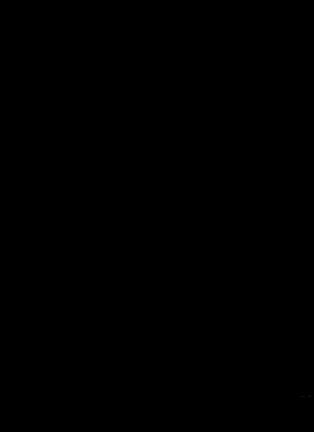
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Puff says it is less likely that the Internet would be disrupted at a bowling company in a big metropolitan actea that has a robust infraortecture and a lot of redundancy than it would be in sqursely propulated Yuma County. Conversely, internal users are less likely to lose the use of their corporate applications if those applications reside in the data center and don't depend on the Internet.

These moves will offer some protection against network outages, but not 100% protection, Puff acknowledges. "If the entire Internet goes down, everyone's in a world of hurt, but I try to look at the probabilities."

BURNED BRIDGES

BNSF Railway Co. in Fort Worth, Texas, also uses a private, non-Internet network for its core operations and for transactions with major customers. But it uses the Internet for many lesscritical functions that would be painful to lose if the Internet twent down, says Beth Bonipur, assistant vice president for technology.

For example, BNSF uses the Internet Continued on page 28





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Set up dedicated networks indopendent of telephone companies in certain parts of the country. "They are survivable communications owned and operated by financial service utilities." Schutzer says, declining to give details

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COVER STORY

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For example, BNSF uses the Internet Continued on page 28

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COVER STORY

Continued from page 26

for its customer help deck and to provide shipment-racking informative Air in Information to smaller customers. Offering customers self-help via West sites allowed 1995 to reclave its support staff, but now the railway doesn't have adequate sufficient handle the fart, telephone and other means of communication that it will be the necessary to use if the Internet word.

Mown. There have been some limited Internet outages, Bonjour says, "and it's not protty."

INCONVENIENT AT BEST

Similarly, Intermountain Health Care Inc. in Salt Lake City uses a dedicated WAN to communicate with its major hospitals and clinics, but it uses the Internet for many other things, such as contact with vendors and health plan brokers and for access to WebMD, an online source of health advice. There are backups for some of those things. For example, ordinary telephone service can be used to communicate with vendors. But for others, such as broken relations, there is no backup. "It would be encumbered tremendously if the Internet went down," says Marc Probst. CIO at Intermountain.

The Little Things

PATRICK CAIN, chairman of a network accurity working prous of the internat Engineering Task Force, says he had, the possibility of a calestrophic latter cat labor unifolding. He points out that a major earthquake in Aupan in 2005 showed rathic and out of Jaspan but went lately undetected in the rest of the world. When havincared disrupt traffic along the East Coast of the U.S., tark its assemblery routed to the Work Coast. And when a domain name server once down, an alternate server picks up to see down.

But, says Cain, co-founder of The Cooper Cain Group Inc. in Cambridge, Mass., "is natural for people planning for disasters to concentrate on the big, dramatic events, like the crash of an airliner into a data center. Meanwible, lesser but more likely events are ignored. For example, he says, if an organization has some local problem that prevents access by the public to its Web site, that can create a public relation data with a second problem.

"So if you are on the West Coast, maybe you should get a cheap Web host on the East Coast set up as a fail-over site," he says. "But very few companies do that."

- GARY ANTHES

Asked in a telephone interview if Internet alternatives are part of Intermentation disaster recovery and business-continuity plans. Probasis, "We haven't set down and gone through that kind of thinking. It's probably a very good thing to do, and we will, right after this phone call."

ICANN's Crocker says that although the Internet has serious vulnerabilities, some of them could be patched relatively easily. He urges IT and business leaders to speak up and demand better technology. Today, the network operators, equipment vendors, government and business all secun to accept the idea the network is inherently dangerous and cart be modified in any useful way, think that's fundamentally wwong."

He points to a number of practical proposals for Internet improvements that have gone nowhere, including Internet Best Current Practice 38 (see story at left).

Crocker says the Business Roundtable report and similar critiques carry an 'implied assumption' that individual companies can protect themselves. There is some truth to that, he says, because companies can, for example, get multiple copies of critical systems running in different locations, albeit at considerable expense.

But he says that the most important thing companies should do is to band thoughter to improve the overall situation. A frist-class "Col Crocker says, should approach its CEO with this message: "Hoss, we need to take care of ourselves, but we also need to organize into a powerful user group and bring some pressure on (twedors) so that the network is fundamentally safer tomorrow than it is today." **

Best Practice Not Practiced

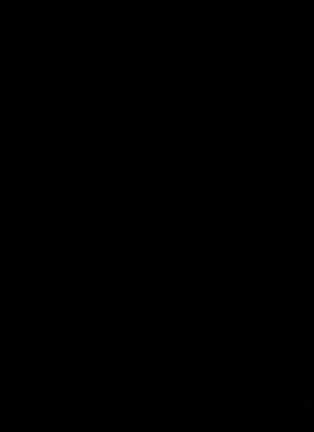
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N MAY 2000, in response to a "resur-

service providers could check packets to ensure that they contain valid, legitmately reachable source addresses, says the RFC, which has since been named Best Current Practice 38 (www.armware.dt/RFC/bcp/

To what extent have the SNs Implemented that?" asks Steve Crooker, chairman of CAMPS: Society and Stability Advisory Council. The answer is, hardy at all. The society and the stability and the stability and and should be done to improve the overall society of the internet, but it dones if fit the model of how someone can make more money by selline a new product.

- GARY ANTHES



COVER STORY

Continued from page 26 for its customer help desk and to provide shipment-tracking information to smaller customers. Offering customers self-help via Web sites allowed BNSF to reduce its support staff, but now the railway doesn't have adequate staffing to handle the fax, telephone and other means of communication that it would be necessary to use if the Internet went down. There have been some limited Internet outages, Bonjour says, "and it's not pretty."

INCONVENIENT AT BEST

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Engineering Task Force, says he finds the possibility of a catastrophic finte net failure unlikely. He points out that a major earthquake in Japan in 2005 slowed traffic in and out of Japan but traffic along the East Coast of the U.S. Coast, And when a domain name server goes down, an alternate server picks up

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considerable expense. But he says that the most important thing companies should do is to band together to improve the overall situation. A "first-class" CIO, Crocker says, should approach his CEO with this message: "Boss, we need to take care of ourselves, but we also need to organize into a powerful user group and bring some pressure on [vendors] so that the network is fundamentally safer tomorrow than it is today." ■

Best Practice Practiced

Internet targets, the Network Working Group of the Internet Engineering Task Defeating Denial-of-Service Attacks Which Employ IP Source Address Spoofing flood Web sites, rely on rando olfending data packets do not contain the real "return address" of the computer that

ensure that they contain valid, legitimately which has since been named Best Current Practice 38 (www.armware.dk/RFC/bcp/

"To what extent have the ISPs implement nd that?" asks Steve Crocker, chairman of ICANN's Security and Stability Advisory and should be done to improve the overall security of the internet, but it doesn't fit

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CAREERS

HORT OF being handed your walking papers, there are often telltale signs that it's time to look for a new job: You haven't been promoted since the Clinton administration. The most exciting assignments are routinely handed to your peers or underlings Your desk keeps moving farther and farther from where the action is.

But some indicators are less obvious, such as subtle shifts in an IT organization's structure that can result in career stagnation. A variety of career experts, headhunters, recruiters, CIOs and IT staffers gave us their takes on when it's time to move on

YOUR ROLE HAS BECOME MARSINALIZED, If you're being bypassed for

promotions or interesting as signments, or they're consistently being offered instead to IT workers in subordinate positions, "that would be an obvious sign," says

Robert Rosen, CIO at the National Institute of Arthritis and Musculoskeletal

and Skin Diseases in Bethesda, Md., and past president of Share, an IBM user group in Chicago. Often, the handwriting is

on the wall. You just need to stop, step back and read it. "If you feel like you're no longer contributing, there's a good chance you may not be," says Frank Hood, CIO at QIP Holder LLC (Quiznos) in Denver.

YOU'VE STOPPED GROWING. "If you're not learning every day, if you're not doing new

things, and if you're not improving," it's time to move

Signs It's Time To Look for a lead New Job in

Don't be the last to realize you ought to move on.

By Thomas

Hoffman

If you hate what you're doing or you're not proud of what you're doing, or there's an issue you need to talk to your boss about but you don't because you know it won't do any good - that's when it's time to look for a new job.

JOEL REITER, APPLICATION ANALYST, U.S. BANCORP

on, says Sara Garrison senior vice president of product and solutions development at Sabre Holdings Corp. in Southlake, Texas

Red lights should be flashing if you've effectively been in the same role for two or three years and haven't taken on any significant new challenges during that time frame, says Umesh Ramakrishnan, vice chairman of CTPartners, an executive recruiting firm in New York.

YOU'RE NOT PART OF

THE BIG PICTURE. Most CIOs assemble a road map of where they intend to take their organizations over the next 12 to 60 months. including the top IT-business projects they plan to work on, notes loe Trentacósta, CIO at Southern Maryland Electric Cooperative in Hughesville. Md. If there are a lot of upcoming projects that don't include your area of expertise or in which you may play a minor role at best, "that's a warning sign," he says.

Further, if you've been relegated to a commodity-type IT function that offers little value to the organization or can easily be outsourced,

"it's time to move on to a new opportunity," says Hans Keller, chief technology officer at the National Aquarium in Baltimore.

YOU'VE BEEN EXCLUD-ED. If you're a CIO or other senior IT man-

ager, the alarms can include your not being asked to participate in new business decisions or being excluded from formal or informal executive committee meetings says Craig Urrizola, CIO at Saladinos Inc. in Fresno, Calif. The view is equally bleak if you're an IT staffer whose input on new projects is no longer requested or is sought on just a limited basis.

- YOUR LEVEL OF INFLU-

ENCE IS WANING. A CIO certainly has more clout within an organization than a network engineer. But all IT professionals possess some level of influence within their work teams or at least among their own peer groups. If you see your powers of persuasion shrinking, Keller suggests that it's time to move on

YOU NO LONGER ENJOY

THE WORK. "Someone once told me that we're not here for a long time; we're here for a good time," says Michael Nieset, managing partner for the technology practice at Heidrick & Struggles International Inc. in Cleveland. "If you're not excited about the projects you're working on, fix it," he says, "If you are wholly engaged, passionate about what you're doing and doing what you're good at, you'll be fulfilled and rewarded accordingly. Sometimes people stay in suboptimal situations because it's comfortable for them. You

have to take control "

When to Stay Put

Would-be job hoppers who are unsure whether it's the right time to jump would be well advised to take a line from Kenny Rogers' "The Sambler": You got to know en to hold 'em: know

when to fold 'em Here are some concret tips from career experts on on it's best to stay in your current role:

 If you are consist receiving new and cha

If you are asked or encountered in the second or encountered in the sec aged by your employer to take on additional training to

help expand your skills. If you are offered incer

CONTINUOUS IMPROVE-MENT ISN'T PART OF THE MANTRA. Sometimes, there are organiza-

tional changes - or lack thereof - that you should regard as career alerts. These include stagnation within a corporation or an IT department. If your IT organization has been using the same application development techniques for the past 15 years and has made no effort to update its approach, "then something's wrong," says David Van De Voort, a principal consultant in Mercer LLC's Chicago office.

If your company is unwilling to invest in continuous improvement processes such as CMML ITIL or Six Sigma, it may be time to seek a company that is, he adds.

OTHER PASTURES TRULY ARE GREENER, If you've reached a crossroads where you've become

tives and rewards for coming up with new ideas that help the organization.

■ If your com is equivalent to or growing at a rate that's compara to that of your peers in like sized companies or similar Industries

If your company has been on a strong and steady growth path - and that is re-

flected in your compensati If your supervisor provid you with clearly defined ca-

If your organization h high-quality manageme

- THOMAS HOFFMAN

disenchanted with your employer for one reason or another (i.e., long hours, infrequent promotions, career malaise) and you've received a job offer from another company, it may be the right time to jump ship.

"In situations where things don't fix themselves - if you hate what you're doing or you're not proud of what you're doing, or there's an issue you need to talk to your boss about but you don't because you know it won't do any good - that's when it's time to look for a new job," says Joel Reiter, an application analyst at U.S.

Bancorp in St. Paul, Minn In this situation, however, be certain that you're moving toward a good opportunity and not just moving away from one that's gone bad.

lays to and a Job in Here's how to

get noticed and nail the interview. By Thomas

URE, demand

for IT labor

in the U.S. is

strong across

nearly all in-

dustries and

government

sectors. But having a techni-

cal certification or work ex-

perience won't guarantee an

interview, let alone a job offer.

Here are some tips from

IT labor experts, recruiters,

executives and workers on

how to get the position you

APPEAR EMPLOYABLE.

If you're currently un-

employed, find a tem-

porary position or work as a

contractor, says Joel Reiter,

Bancorp in St. Paul, Minn.

That shows flexibility and

ambition.

an application analyst at U.S.

want in the new year.

Hoffman

KEEP LEARNING. "Education is absolutely — vital to further your

career in IT," says Neill Hookins, vice president of skills development at The Computing Technology Industry Association Inc. Employers look for a dem-

onstrated thirst for knowledge and a willingness to learn new skills, so step out of your comfort zone and learn new technologies or take an evening class. "It shows that [you're] willing to be aggressive and to learn," says Joe Trentacosta, CIO at Southern Maryland

Electric Cooperative. WORK YOUR RELATION-

SHIPS, Savvy job candidates use social

networks like LinkedIn and Facebook for inside word on iobs from college alumni, former business associates and mentors, says Dan Reynolds, CEO of The Brokers Group LLC, a staffing firm in Princeton, N.I.

And if you're a newbie. you can connect with potential employers through entry-level job listings on social networks, says Michael Nieset, managing partner at Heidrick & Struggles International Inc.'s technology practice in Cleveland. DOT YOUR I's. Make

sure your résumé uses clear, proper English and correct spelling. If it's sloppy, "you won't even make it past the first gate," says Robert Rosen, immediate past president of IBM user group Share and CIO at

the National Institute of Ar-

thritis and Musculoskeletal and Skin Diseases.

STRUT YOUR STUFF. "Employers want to

see 'I managed this, I coordinated that," says Reynolds. "They don't want to see 'assisted with this' or 'supported that.'

If you weren't the project leader, highlight your role in the success of a critical project, says Katherine Spencer Lee, executive director at Robert Half Technology in Menlo Park, Calif.

> COME PREPARED FOR THE INTERVIEW. This

sounds like a nobrainer, but hiring managers are increasingly looking for candidates who can do more than a "tech interview." They may check your communication skills by asking you to explain your past experiences or describe how you would handle certain situations on the job, says lill Herrin, CEO of JDResources Inc., a recruiter in Memphis.

- TALK BUSINESS, Prospective employers also want to know whether you understand how systems and applications affect various business divisions and the company overall. "We want somebody with technical acumen, but I would like to know that these people know the basis for making

CIO at OIP Holder LLC (Ouiznos) in Denver. GET A FOOT IN THE DOOR. Don't besitate to take a temporary, contract or

money," says Frank Hood,

temp-to-hire position. "Once you come in as a temp or a contractor, no one is really looking at your résumé," says Reiter. "They're looking at whether you can or can't do a particular job."

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a puddle on the floor. Lure her to the watercooler and you're done.



3. Fight magic with magic With a wand of your own say a pointer—you can create some magic of your own. Before you know it, you'll be turning Witches into toads.





5. Steal her broom Nearly every Witch has a magic broom, and if you can get it away from her she's basically grounded And, with a little practice, you can cut your commute in half

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Books That Can Change Your Life

Must-reads for 2008. By Mary K. Pratt

NDREW GALBUS
was a programmer/
analyst a food
manufacturing commanufacturing commanufacturing commanufacturing commanufacturing commanufacturing commanufacturing compocine and Fai of the American
Programmer. Galbus says
the book made him realize
that his employer was not
helping him build a sustainable career in the IT sector.
I'm made me think, 'Do I
want a job or a career, in a
do I want just a career in a

company or a career in the IT industry? "Galbus says. Spurred by the book's message, Galbus got a job at

Spurred by the book's message, Galbus got a job at an organization that helped its people build their careers. He also got an MBA. He's now unit manager of the IT Quality Office at the Mayo Clinic in Rochester, Minn.

Books can educate, provide insight, prompt reflection and even inspire change. We asked corporate coaches, leadership consultants and IT professionals

for their top picks: PERFORMANCE

PERFORMANCE

Now, Discover Your Strengths
(Free Press, 2001), by

Marcus Buckingham and Donald O. Clifton, and Go Put Your Strengths to Work: Six Powerful Steps to Achieve Outstanding Performance

Outstanding Performance (Free Press, 2007), by Marcus Buckingham. "They give you a system for actually identifying and putting language to your

DISCOVER

strengths," says Wendy Wallbridge, president and executive coach at On Your Mark Corporate Coaching & Con-

sulting Inc. in
Novato, Calif.

Death by Meeting:
A Leadership Fable . . . About
Solving the Most Clossocy-Bass,
2004) and The Five Tempta-

Fable (Jossey-Bass, 1998), by Patrick M. Lencioni. "The stories are very real, and the

way he approaches things makes it very memorable," says Bart Bolton, a leadership consultant at Lifetime Learning in Upton, Mass. The Nibble Theory and the Kernel of Power: A Book Abor Leadership, Self-Empowermet

Leadership, Self-Empowermen and Personal Growth (Paulist Press, 2004), by Kaleel Jamison.

Kaleel Jamison.
"This was a real
cye-opener to me
on how I needed
to step back and
think differently
about what I was
doing," says Cath
erine Brune, se-

nior vice president and CIO at Allstate Insurance Co. in Northbrook, Ill. Improv Wisdom: Don't Prepare, Just Show Up (Harmony/Bell Tower, 2005), by Patricia Ryan Madson. "A refreshing

view of communication

The bungee cord for the modern IT executive.

and behavior in work and personal life," says Robert Rouse, director of the Regional Leadership Forum of the Society for Information Management and a professor of computer science and engineering at Washington University in St. Louis.

LEADERSHIP

On Becoming a Leader: The
Leadership Classic (Basic
Books, 2003), by Warren
G. Bennis. "Someone who
really wants to understand
leadership should start

here," says Bolton.

Can Matter More Than IQ (Bantam Books, 2006) and Primal Leadership: Learning to Laad With Emotional Intolligence (Harvard Business School Press, 2002), by Daniel Goleman. "Good leaders need to understand cannot "Bolton cannot."

people," Bolton says.

Thin Book of Appreciative



Inquiry (Thin Book Publishing Co., 1998), by Sue Annis Hammond, "You have to have a culture of appreciation or people become demoralized," says Wallbridge. ■ Force for Change: How Leadership Differs From Management (Free Press, 1990) and Leading Change (Harvard Business School Press, 1996), by John P. Kotter; and The Heart of Change: Real-Life Stories of How People Change Their Organizations (Harvard Business School Press, 2002), by John P. Kotter and Dan S. Cohen. They help define the differ-

that you have to know when to be one, the other or both. South: The Story of Shackleton's Last Expedition, 1914-1917 (Birlinn Ltd., 2002), by Ernest Henry, Sir Shackleton. "It's an amazingly inspirational story on how to lead and ensure the success of your followers," says Dan Gingras, a partner in the New England practice of Tatum LLC, an Atlantabased executive services and consulting firm. True North: Discover Your

ence between managers and

leaders. Bolton says, noting

Authentic Leaderahip (Jossey-Bass, 2007), by Bill George, Peter Sims and David Geogen, and Authentic Leadership: Rediscovering the Secrets to Creating Lestiny Value (Jossey-Bass, 2004), by Bill George. According to Bolton, these books will help you find your own leadership style.

INSPIRATION

Banker to the Poor: Micro-Lending and the Battle Against
World Powerty (Public-Af-

Londing and the Batris Against World Power (Volid); and the World P

You have to stretch. From directing your company's IT infrastructure — all the way to contributing to its business goals. You're the one pulled between two worlds.

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COGNOS:

Planning a Recovery That Isn't a Disaster

Our overwhelmed security manager wants her disaster recovery plan to be more than an exercise in filling in the blanks.

VERY JANUARY. I have to update my agency's disaster recovery plan. The good news is that the state only requires me to fill in some forms. I could be done in half an hour. The bad news? Should one of the state's major cities ever be struck by terrorists, this so-called disaster recovery plan would leave us looking like FEMA after Hurricane Katrina hit.

I'm not the sort of person who's content to satisfy the minimum requirements when I know how inadequate they are. This year, I'm considering revamping the entire plan. including testing it and training people on it

But I'm shaking my head while I write these words. If you've been reading this column lately, then you already know why. My state is experiencing a budget crisis, and I've been bemoaning my lack of resources, especially the time and staff I need to do everything that needs to get done. Do I really think I can throw another big project in on top of manag-

ing a network and all of our information security? My problem is that I can't belo but identify with those nameless FEMA em-

ployees I have conjured up in my imagination. There were probably plenty of them who knew that what the agency had down on paper and stored away in dusty binders was pretty much useless because it hadn't been tested. I don't want to think "I knew it would be this way" after the fact. Lives are at stake. and I can't live with the

potential consequences. That means doing something more than the minimum this year, even though I'll probably have to do it on my own time. I can start by assess-

ing what I know. It could be that I'm not informed about the state's readiness to respond to a catastrophe. After all, my agency provides social services,

■ I want to do more than the minimum, even if I have to do it on my own time. not public safety. If a city blows up, who cares if social services shut down? The top priorities would be saving lives, searching for victims, discovering what happened, appre hending perpetrators and

any of that. Still, the state is more than one city, and we can't let everyone else down. Basically, we need to try to ensure that we can continue to operate, even if our main facility is destroyed or simply inaccessible.

calming the public. My

agency isn't involved in

RARY STEPS

But first things first. As in any disaster recovery plan, employee safety is the No. I priority. At the very least, I can update the employee roster so that locating employees (or their next of kin) won't be difficult. Then I can update the evacuation plans and perhaps expand them. Any thing I do here is going to be an improvement, since the current plan is the equivalent of a fire drill.

Next. I can turn my atreasons. Contact her at tention to our ability to set mscjkelly@yahoo.com. up temporary shop. The

Trouble

AT ISSUE: The disaste recovery plan isn't worth the paper it's printed on. **ACTION PLAN: Devise** omething of real value spite tight resource

agency has four physical locations in the state: the primary and secondary hubs, and two small facilities. I can plan a live test to demonstrate cessation of operations in the primary hub and continuance of operations in the second-

That's probably as far as I will get this year, but it's a start, and I can build on it next year.

But I won't get that far if I let my exhaustion get the better of me. I won't be able to complete the task ahead of me without inspiration. What's inspiring me, at least for now, is the thought that the fate of our states and our nation is in the hands of the likes of me. There are educated, bright and hardworking people out there working for the government - I've learned that in my time in the public sector. But many of them, like me, are completely overwhelmed

priorities that

demand their

attention. It is

with conflicting O JOH IN To som the d

only because of their dedication and passion that anything meaningful gets done. I hope I can rise to that standard and come up with a disaster recovery plan worthy of the name. This week's journal is written by a real security manager, "C.J. Kelly," whose name and employer have been disguised for obvious

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OPINION

Paul M. Ingevaldson

Strategic IT Systems? **There Are None**

T a recent IT conference in Edmonton, Alberta, I had the opportunity to be on a luncheon keynote panel with Nicholas Carr of "IT Doesn't Matter" fame, along with another active CIO and a former IT researcher.

The initial question that we each were asked to address was this: What is the role of IT? Is it a strategic resource that enables an organization to differentiate its products or services, or is it merely a cost of doing business - an essential part of the organization but one focused on cutting costs and reducing risks?

Carr spoke before I did. He talked about how IT is essential but not strategic, since companies can no longer gain competitive advantage from computer systems because most are using similar software and thus can't differentiate themselves through technology.

I took a very different position, though in a very narrow sense I agreed with Carr. I don't believe IT systems are strategic. All strategies must grant with the business strategy. But a business strategy without tactical support is like a general

without an army. Once the company has decided on the strategy, then each department, including IT, must decide how it will execute the strategy. These discussions will result in the tactics that will bring the strategy to

Some strategies will require a large portion of IT tactics; others, fewer. In all cases, however, the resultant strategy is a business strategy, not an IT strategy. Using this process, incidentally, is how companies can be sure that IT stays aligned with the business.

In my mind, it's foolish to suggest that IT or any other department doesn't matter. All are there to do one thing: work together to enable the company to gain competitive advantage. How they tactically

This could be the most important issue facing you and your profession.

perform that job, whether by means of existing software or custom work, is a function of the strategy. I would suggest that if

the strategy requires the systems to operate differently than those available on the market, then IT must develop custom code that will satisfy the strategy. IT should not force the strategy to change to accommodate existing software.

The IT industry must take a stand on this issue. As writers and pundits travel the conference circuit and preach their visions of the future, we must pay attention, un-

derstand the threats that are being suggested, and make our voices heard. If corporate leaders

believe that IT is going to become so easy and canned that the users will be able to run the technology, we will continue to see IT departments reduced and outsourced and offshored and treated like the util-



ity that is envisioned. But if this represents just another ivory tower idea like the paperless office and e-books, then IT practitioners have to speak up and convince those same leaders that IT is a valuable resource that must be nurtured. Otherwise, we are going to see a continuing reduction in IT college graduates as students follow more promising career paths. Companies will struggle to achieve that elusive competitive advantage as the number of first-rate minds in IT dwindles

So here are a couple of action items. If you haven't done so, read Carr's article "IT Doesn't Matter." It's available on Amazon.com. After that, stand up and be counted. Let me know what you think IT's role will be in the future. Perhaps we can publish some of your comments in an upcom-

ing article. The outcome of this debate isn't going to affect me. I've had my time. However, this could be the most important issue facing you and your profession. Don't just stand there. Don't just watch. Get involved. ■

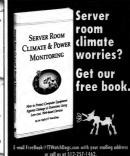
Paul M. Ingevaldson retired as CIO at Ace Hardware Corp. in 2004 after 40 years in the IT business. Contact him at ingepi@aol.com.

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ony officers who are female. The Hacker's Master's

EC-COUNCIL UNIVERSITY, a sister institution of the "ethical hacker" certification authority known as the FC-Council (International Council of Electronic Commerce Consultants). has established a master's program in security science. According to the Albuquerque-based EC-Council. the MSS program is suitable for students with a wide range of

previous security experience. It ofters high-level coverage of security principles and the emerging issues and technologies in network security. The MSS program is expected to take from one to two years to complete. Students should plan to study the course half-time while working in the security

Applicants should have a bachelor's degree - in any discipline; those with at least two years of experience in the IT industry will be given admissions preference



Stewart Tansley The program manager for Microsoft Research's Institute for Personal Robots

in Education discusses computer science education.

scitement deficit" in young ple when it comes to ying computer science? Robots seem to captivate people especially young people - in a rather special way. If you look at the history of robotics as a social phenomenon rather than solely as a technological evolution, you find the notion of an artificial person, or quasi-conscious machine, to be surprisingly deeply rooted - nerhans as old as history itself. It is this primal connection to mbots that we are partly building on in our exploration of the technology.

One way we are trying to make education more fun and effective through the use of robotics is the (Institute for Personal Robots in Education | Established in July 2006. IPRE is a collaborative research project hosted at the Georgia Institute of Technology with Bryn Mawr College. It is sup ported by seed funds for three years from Microsoft Research and the schools themselves

IPRE's mission is broad to employ robots in education at all levels, from middle school to graduate school Our initial target, however, is introductory undergraduate computer science. Through our collaborative research, we hope to show that by empowering every student with their own personal

robot, purchased with the class textbook, we can improve retention in and attraction of students to computer science. An important component of this idea is that the robots for these courses must be reliable and inexpensive so that every student can

have one. IPRE will keep the barrier to entry low for those professors interested in trying something new In the end, robots are just one way to introduce more students to programming in these challenging times for computer science educators.

is the program's introduction on schedule? At this time, we are on schedule having completed pilot teaching trials at Georgia Tech and Bryn Mawr in spring 2007, and moving to broader teaching trials starting this past fall.

How about the expansion to other schools? In spring 2008. we will extend the reach of IPRE to perform teaching trials at other schools - potentially six to 12 hut we are evaluating the appropriate number and approach. We are building a textbook based on the curriculum in parallel and refining the software and hardware. We will openly publish the scientific results of the effectiveness of the technolony in class as soon as possible through regular academic channel (conferences and journals). Assum ing the scientific results prove the utility of the approach, we will make the technology (hardware, software and curriculum) broadly available to the academic community. There would be little point in pushing a so lution that was not thoroughly proven to be effective and the degree of its effectiveness quantified, so that professors can evaluate whether the approach is right for them, which we certainly hope. This is a central

tenet of IPRE's approach - JAMIE ECKLE

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TRUE TALES OF IT LIFE AS TOLD TO SHARKY

Password-Protected

Pilot fish creates an accou for a new user, who tells fish that he has a hard time remembering things like usernames and passwords "I suggested that he could write it on a small piece of paper until he memorized it, then destroy it," says fish. " emphasized that he shouldn't write any other information on the paper in case he lost it, comparing it to writing your PIN on your ATM card. He reached in his wallet and pulled out his ATM card and

said, 'Like this?' **Numbers Game**

This programming team is converting an application for a Beltway company that's so security-conscious, deve ers aren't even allowed to choose their own passwords. "We were assigned passwords, which we had no authority to change," repor a pilot fish there. And despite many good password rules. such as no more than two repetitions of a character in a row, what is fish's password? His birthday. Sighs fish,

"Since I was born on Nov. 11, the first six digits of my password were 111119. I doubt that would pass any company's security rules for passwords."

It's Only Dumb If You Don't Ask

User needs VPN access, and this pilot fish sets it up, complete with a password that

mixes digits with lowercase and capital letters. And fish wants to make sure user understands that this password is case-sensitive; to emphasize the capital letters, in his e-mail with the password, fish makes those characters both bold and underlined, Reply from user: "Thanks for help ing me out yesterday. I've set up the VPN connection, but I can't get in. Probably because of the password's formatting. My (possibly dumb) question: How do I activate underlining of the letters in

the password?" There's Always A Reason

Senior sales exec calls this IT boss pilot fish to complain that he only receives e-mail from the company president when someone sends a "reph to all" message. How bad is the situation? "He claims he hasn't received an a-mail from the president for some time, and that "It is imperative this get fixed immediately," says fish, who checks into It posthaste. "Inspection of his e-mail settings shows. first, junk filtering set to Hig second, the president's e-mail address flagged as a 'sus pected junk sender', and last but certainly not least, all suspected junk mail to be immediately deleted. Can't Imagine why he never received any of the president's mail."

■ Sharky will never auto-

matically delete anything

from you - especially if that

e-mail message happens to be your true tale of IT life. Send it to me at sharky@ computerworld.com. You pet a sharp Shark shirt if I use it.

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Good Deals

EMEMBER WHEN Oracle was a database vendor and Sun Microsystems sold workstations? Yes, you can still buy Oracle Ilg or a Sun Ultra. But last week's big deals — Oracle's 88.5 billion buyout of BEA Systems and Sun's \$1 billion deal for MySQL — remind us that the days when vendors fit into tidy niches are long gone.

They should remind us of something more fundamental, too.

On the surface, both deals just look like more Tr industry consolidation. In Sun /MySQL, Sun gets the open-source database it's been hunting for since early 2005, plus some 10 million customers, 20% of whom already use Sun hardware, MySQL gets funding to grow. And potential MySQL customers get a big vendor to stand behind the product.

In Oracle/BEA, Oracle gets BEA's customers and revenue. BEA's customers get to be friends with all those PeopleSoft, Siebel and I.D. Edwards customers they'll share the corral with, BEA itself gets an end to its headscratching search for an identity. (It's a transaction processing company! It's an application server company! It's a serviceoriented architecture company!)

But there's something else going on here — something very good for corporate IT.

corporate IT.

It wasn't that long ago
when both Oracle and
Sun made parts. Sure,
they were best-of-breed
parts, and you could use
them in assembling one
heck of a data center. But
you needed lots of other
parts too, from lots of
other vendors. Putting
them together was lots of
work. And when things
went wrong, there was

lots of finger-pointing.

If, instead, you wanted the whole stack, you went to IBM. OK, or maybe DEC or HP or Unisys. But IBM dominated the data center, and it had since the days when 'data processing' meant running cartloads of punch cards through collating and

■ Customer data is not just the center of IT; it's the center of your whole business. tabulating machines. Those punch cards

held customer data, and that data was at the center of the company's information infrastructure.
Fast-forward through tape and drum and diskstorage, through minframes and clusters and server farms, through proprietary networks and intranest, through paper reports and terminals and PCs—and customer data is still at the center of your company's infor-

mation infrastructure. It's not just the center of IT; it's the center of your whole business.

Oracle figured that out a few years ago — that

a few years ago — that a database alone isn't enough. That's why Oracle has been acquiring all those enterprise applications, building out from the customer data at the center. BEA pushes

things just a little farther. For Sun's part, it started with networking (re-



member "The Network is the Computer"?) and then added Java to build out in the application direction. With MySQL, Sun can finally reach all the way in to support customer data.

to support customer data. See what they're doing? Oracle and Sun now know that making parts isn't enough. Sure, they want to grow and expand their revenues and customer bases. But more than that, they want to cover everything between that critical customer data and the people who'll use it to do business.

They'll cover that stack differently from each other, and differently still from IBM, HP, Microsoft and other enterprise vendors. And each different approach means more choices available for us.

That's good to know. And this is good to know. And this is good to know and this is good to remember: What IT does is still all about customer data. Not algorithms, not protocols, not dandy hardware or gee-whiz software. They're all important, but in the end, what the business depends on IT for is that customer data at the

Oracle and Sun won't forget that. We shouldn't

either.
Frank Hayes is Computerworld's senior news columnist. Contact him at frank_hayes@ computerworld.com.





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